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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-09-09-03** **Date: 02/10/2017**

Customer : Assistant Executive Engineer, Dasarahalli sub division, BBMP, Bangalore.

Address : Dasarahalli sub division, BBMP, Bangalore.

Project Name : Improvements and construction of CC drains right side of the 1st main road Dasarahalli in Ward no.15, Dasarahalli sub division.

Agency : Sri. N. Shivananda, No.35, 2nd cross, 1st A main road, Defiance colony, Bagalagunte, Bangalore.

Customer's Reference : EE/DD/WO/98/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-09-17

Sample ID No : 2017-09-09-03/04

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/10/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	04/09/2017	02/10/2017	151.22 X 150.28 X 151.54	22725	8.189	502.2	22.1	21.6
2	Drain Concrete	M20	04/09/2017	02/10/2017	150.98 X 151.44 X 149.05	22864	8.154	489.3	21.4	
3	Drain Concrete	M20	04/09/2017	02/10/2017	151.32 X 151.86 X 151.04	22979	8.126	491.8	21.4	

Note:

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Samples will be disposed after 30 days from the date of issue of test certificate

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-08-30-02** **Date: 31-08-17**
Customer	:	Assistant Executive Engineer, Dasarahalli sub division, BBMP, Bangalore.
Address	:	Dasarahalli sub division, BBMP, Bangalore.
Project Name	:	Improvements and construction of CC drains right side of the 1st main road Dasarahalli in Ward no.15, Dasarahalli sub division.
Agency	:	Sri. N. Shivananda, No.35, 2nd cross, 1st A main road, Defiance colony, Bagalagunte, Bangalore.
Customer's Reference	:	EE/DD/WO/98/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-08-17
Sample ID No	:	2017-08-30-02/01
Sample Type	:	JSW
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	30-08-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	JSW	Fe500	8	0.394	540	678	20.0%	Satisfactory	Satisfactory
2	JSW	Fe500	10	0.616	562	681	19.0%	Satisfactory	Satisfactory

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ಬೆಂಗಳೂರು

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2017-08-30-02** **Date: 03-09-17**

Customer : Assistant Executive Engineer, Dasarahalli sub division, BBMP, Bangalore.

Address : Dasarahalli sub division, BBMP, Bangalore.

Project Name : Improvements and construction of CC drains right side of the 1st main road Dasarahalli in Ward no.15, Dasarahalli sub division.

Agency : Sri. N. Shivananda, No.35, 2nd cross, 1st A main road, Defiance colony, Bagalagunte, Bangalore.

Customer's Reference : EE/DD/WO/98/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-08-17

Sample ID No : 2017-08-30-02/01

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 30/08/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.58	100.18	1.247	4486	81.4	18.1	16.9	21.1
2	Cover Slab-2	75.27	100.83	1.236	4449	83.3	18.7	17.4	21.8
3	Cover Slab-3	75.81	100.71	1.412	4513	81.6	18.1	16.8	21.0

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-2017-08-30-02**
		Date: 03-09-17
Customer	:	Assistant Executive Engineer, Dasarahalli sub division, BBMP, Bangalore.
Address	:	Dasarahalli sub division, BBMP, Bangalore.
Project Name	:	Improvements and construction of CC drains right side of the 1st main road Dasarahalli in Ward no.15, Dasarahalli sub division.
Agency	:	Sri. N. Shivananda, No.35, 2nd cross, 1st A main road, Defiance colony, Bagalagunte, Bangalore.
Customer's Reference	:	EE/DD/WO/98/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-08-17
Sample ID No	:	2017-08-30-02/01
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	30/08/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.64	165.81	2.848	7953	134.1	16.9	15.7	19.6
2	B	100.32	165.92	2.739	7903	135.2	17.1	17.1	21.4
3	C	100.72	165.78	2.852	7966	134.2	16.8	16.8	21.1

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-08-28-07** **Date: 29-08-17**
Customer	:	Assistant Executive Engineer, Dasarahalli sub division, BBMP, Bangalore.
Address	:	Dasarahalli sub division, BBMP, Bangalore.
Project Name	:	Improvements and construction of CC drains right side of the 1st main road Dasarahalli in Ward no.15, Dasarahalli sub division.
Agency	:	Sri. N. Shivananda, No.35, 2nd cross, 1st A main road, Defiance colony, Bagalagunte, Bangalore.
Customer's Reference	:	EE/DD/WO/98/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-08-17
Sample ID No	:	2017-08-28-07/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	28-08-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.76	–
2	Finess by Air permeablity method (m^2/kg, Min)	259.82	225m^2/kg, Min
3	Density (gm/cc)	3.19	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

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